GOLOWELL MULTIMODAL PLAN

Chelmsford St Bicycle Corridor Improvements

12/07/2020





Introductions



- Chris Hayes, Neighborhood Planner, City of Lowell
- Kristin Saunders, Senior Planner, Toole Design
- Sneha Adhikari, Engineer, Toole Design



What is GoLowell?



- Citywide plan focusing on busses, bikes, walking, rolling, and more
- 10 year plan
- Downtown transit pilot already funded
- Plan will include funding strategies for other improvements







What We've Done So Far

Spring 2020

Phase 1: Existing Conditions

Where people want to go? How they currently get there? What are the problems they experience?



Phase 2: Network

What people think of our proposed network, what corridors are priorities?



Fall/Winter

Phase 3: Details

What do the users of the streets think of our proposed solutions?



Phase 4: Final Plan

Concepts for corridors finalized with cost estimates and funding strategies.

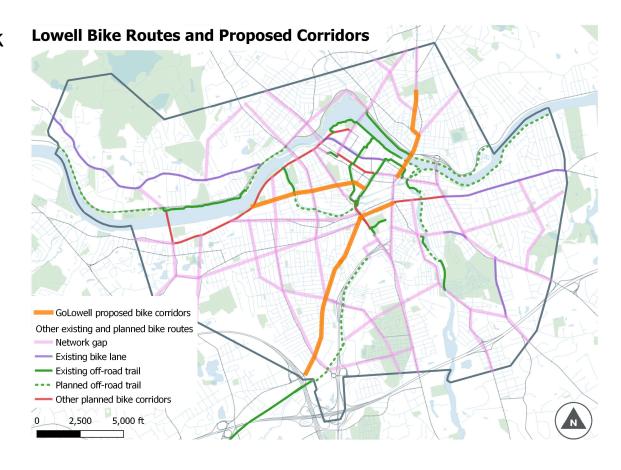


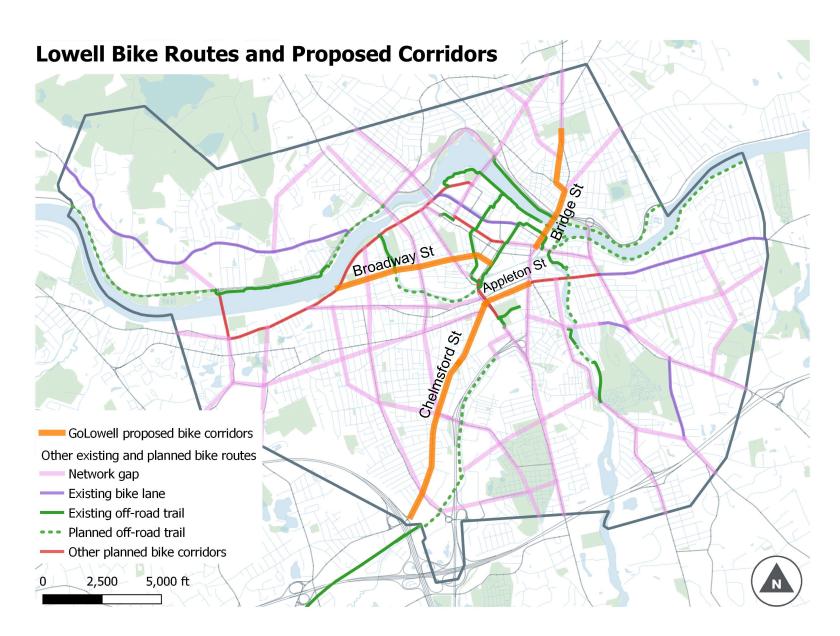
Phase 2 Results: Our Network





- Based on public feedback and equity analysis
- Focus corridor concepts designed now
- Other links will be designed in the future
- Full design and construction depends on funding
- Network may still be tweaked before 2021













Phase 3: Goals of This Meeting

- Share why Chelmsford Street was chosen as a Focus Corridor
- Neighborhood input on Chelmsford Street options
- Intimate talk about trade-offs and constraints
- Think about how to balance the real need for vehicle parking and the need to provide new opportunities for transportation







GoLowell will also Consider...

- Maintenance such as snow removal as a top safety concern
- Parts of the system that aren't necessarily part of the street, like bicycle parking and LRTA website and app
- Education and enforcement

Note: GoLowell recommendations will be a starting point for the above elements, which all may need additional planning, analysis, or coordination with multiple city departments or partners





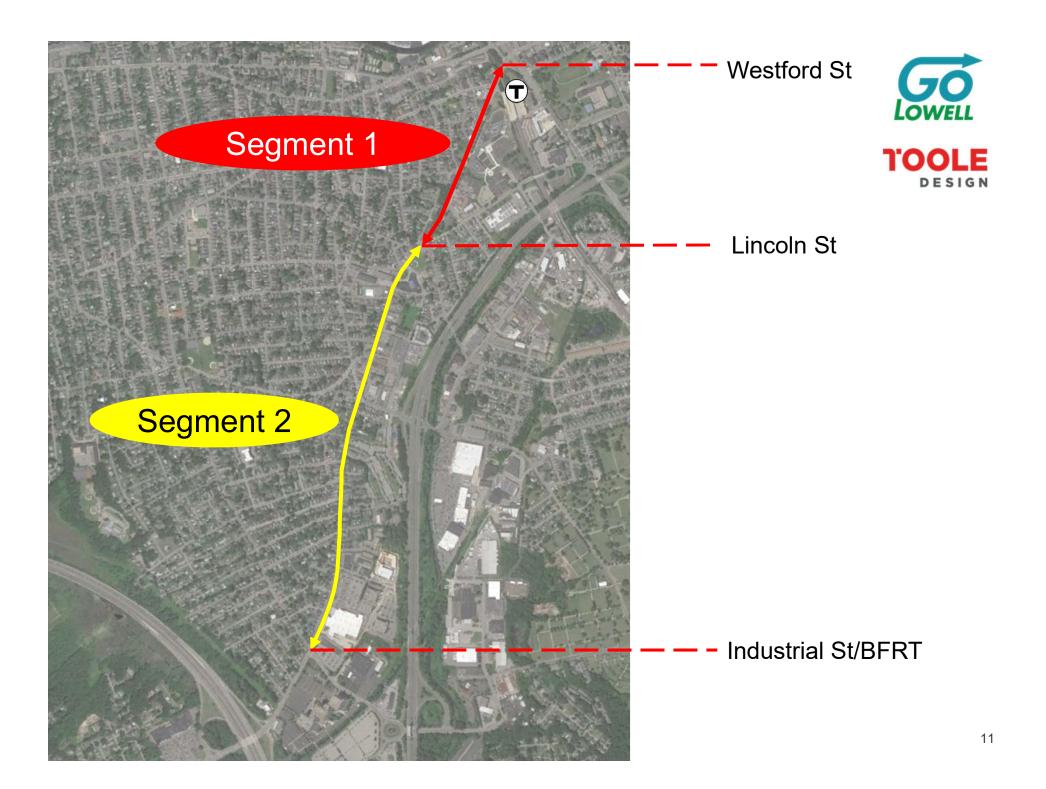
Chelmsford Street

- Chelmsford Street Today
- Why Chelmsford Street
- Concepts for Chelmsford Street

Chelmsford Street Today







Chelmsford St characteristics TOOLE





- Primarily commercial
- Existing unprotected bike lane from Westford St to Lincoln St
- Narrow sidewalks on both sides
- Serves bus route 14, 15, 16
- Parking pockets on both sides
- Gallagher Terminal connection



Why Chelmsford Street





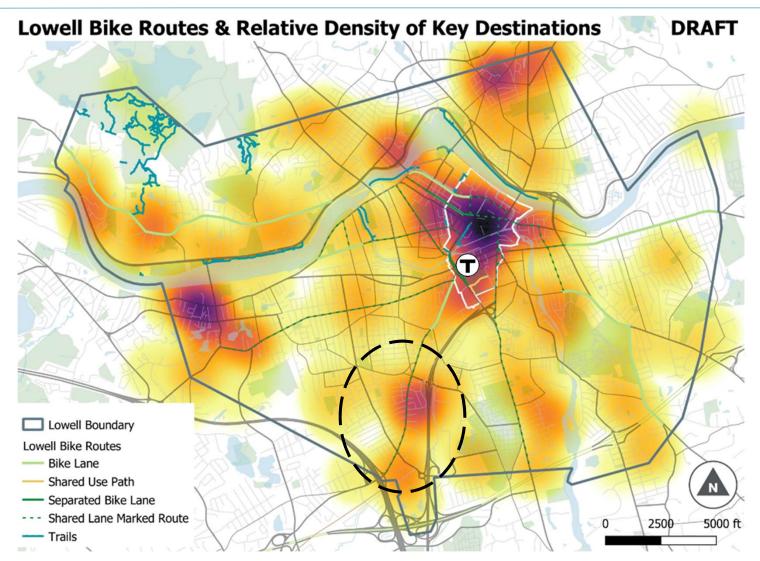




- Two public meetings with survey feedback
- Chelmsford Street outlined as a possible corridor from survey origin and destination information
- Comments:
 - Connection from Bruce Freeman Rail Trail to downtown Lowell
 - Connection to retail options and commuter rail

Origin & Destination considerations

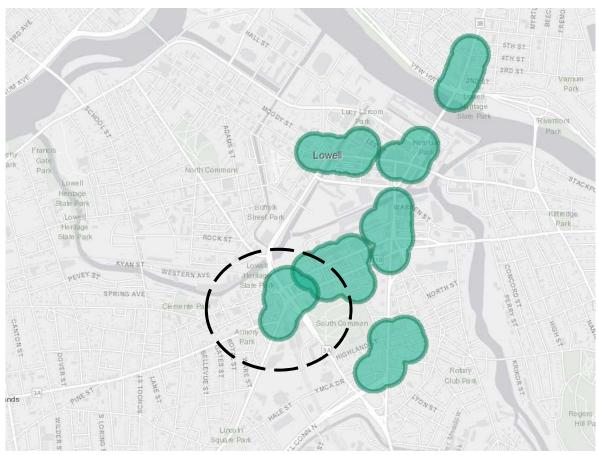




Safety considerations

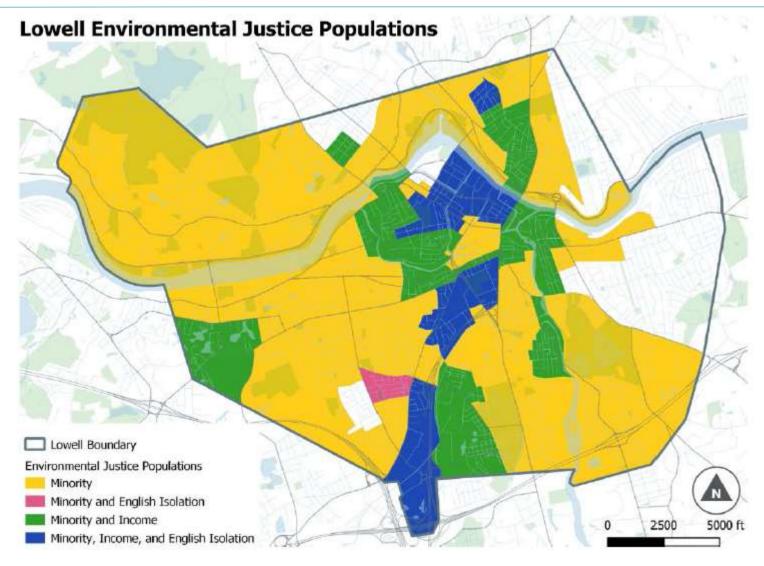


Bicycle crash cluster at start of corridor



Equity considerations

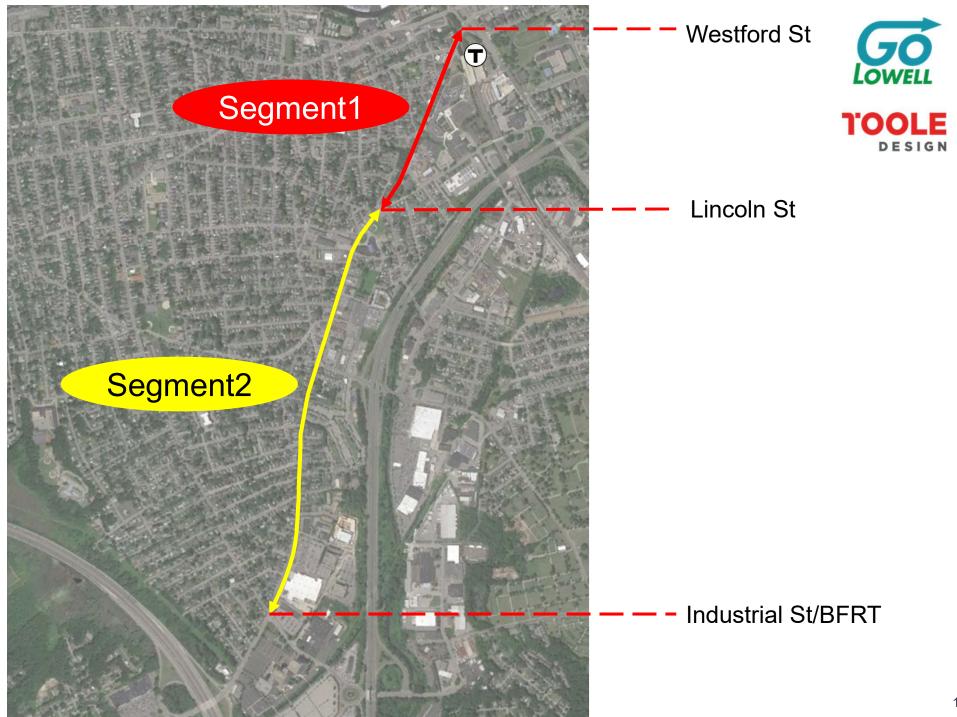




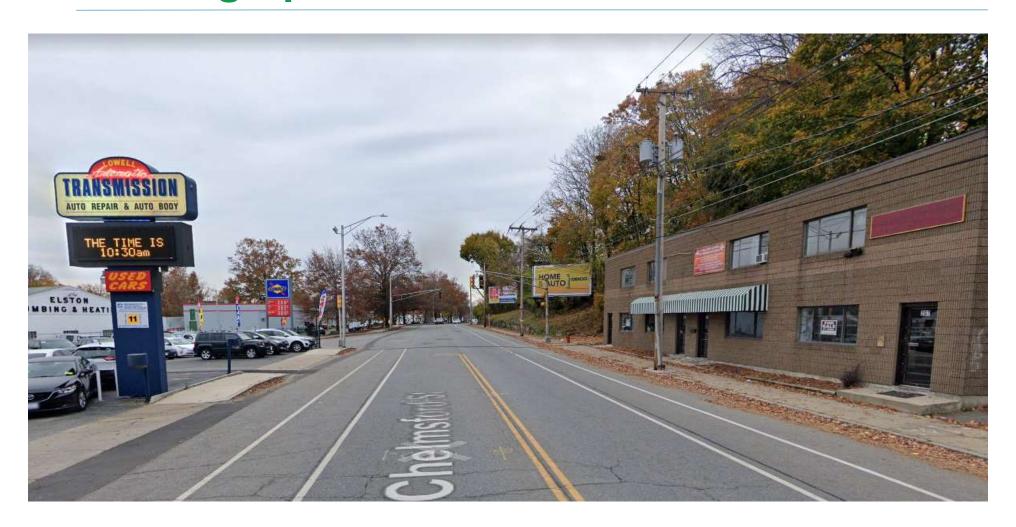
Concepts for Chelmsford Street



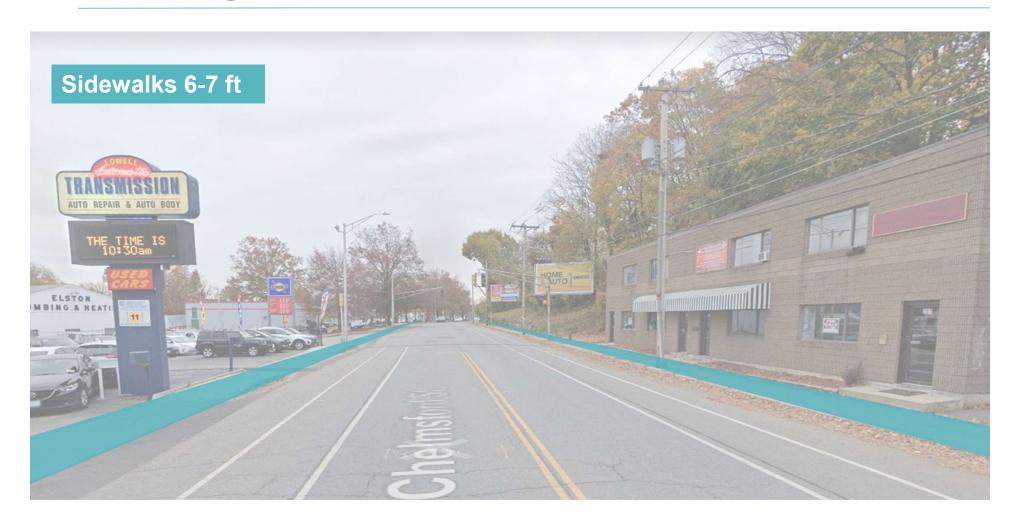




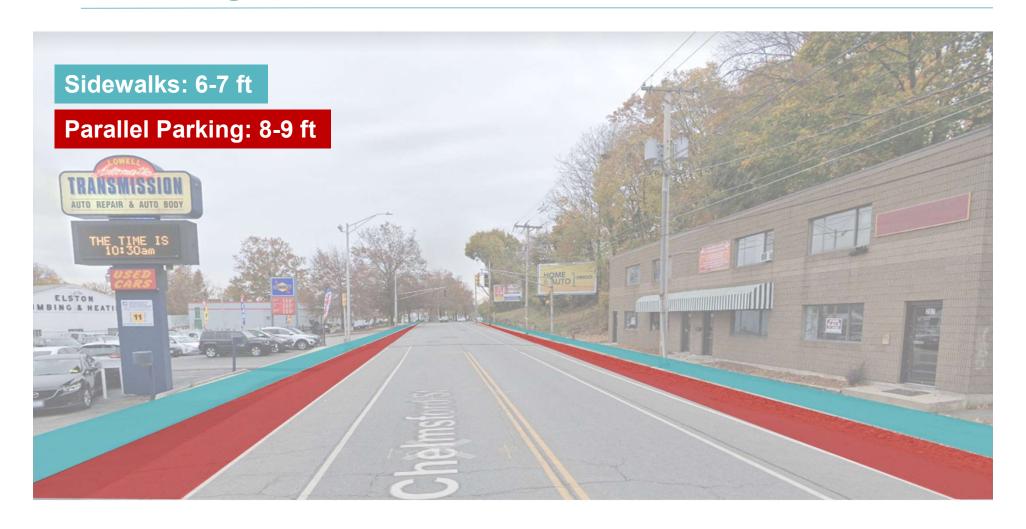




















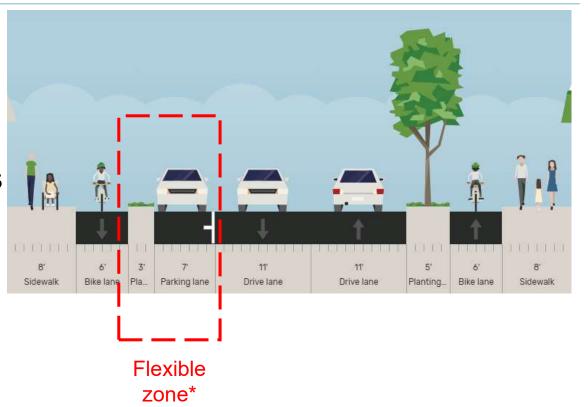




Chelmsford St Segment1 – Concept 1



- Separated bike lane on both sides with buffer
- 8-foot-wide sidewalks
- 11-foot-wide driving lanes
- Remaining as
 "flexible zones" –
 parking, bus stops,
 trees, other can be
 added on either side

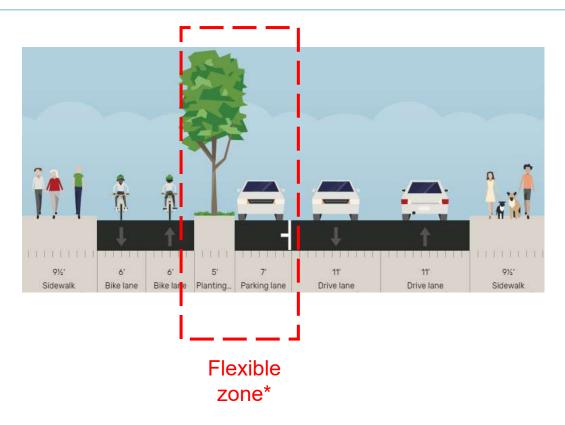


*Flexible zones may be situated on either side

Chelmsford St Segment 1 – Concept 2



- Separated twodirectional bike lane Gallagher side
- Over 9-foot-wide sidewalks
- 11-foot-wide driving lanes
- Remaining as "flexible zones" -parking, bus stops, trees, other – can be added on either side



*Flexible zones may be situated on either side

Chelmsford St Segment 1 – "Flexible Zone" options







Chelmsford St Segment 1 – "Flexible Zone" options







Chelmsford St Segment 1 – "Flexible Zone" options



Green space/trees - Hennepin County, MN



Chelmsford St Segment 1 – Concept 1 chicanes



Chicane

- Curb extensions on alternate sides of roadway that will narrow roadway and require drivers to steer from one side to another.
- Alternating flexible zones for Concept 1 will create chicane effect

Cambridge, MA



Chelmsford St Segment 1 - Concepts comparison

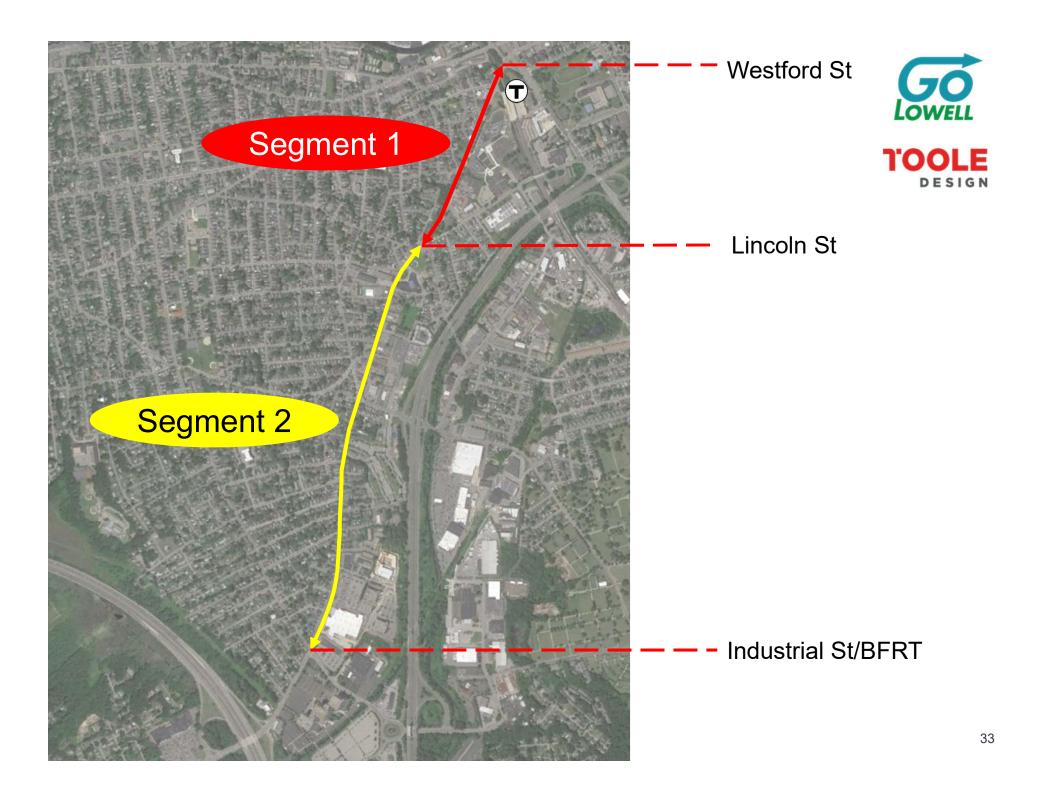








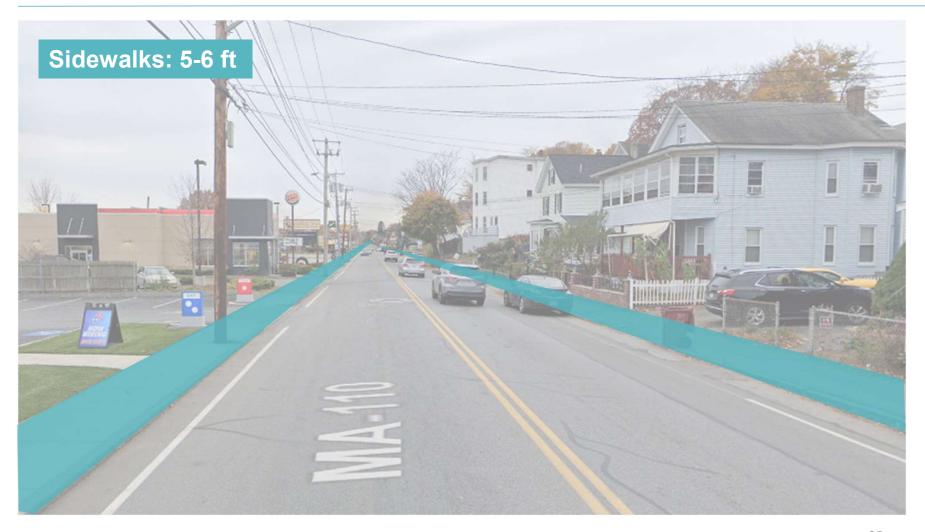
	Existing	Concept 1	Concept 2
Bike Lanes	Conventional only – both sides	Separated – on both sides	Separated – one side only
Traffic Calming	None	Lane narrowing, possible chicanes	Lane narrowing
Sidewalk on each side	5-6 feet	8 feet	More than 9 feet
Flexible zones	None	Some space available on each side of the street	Space only for one side of the street



















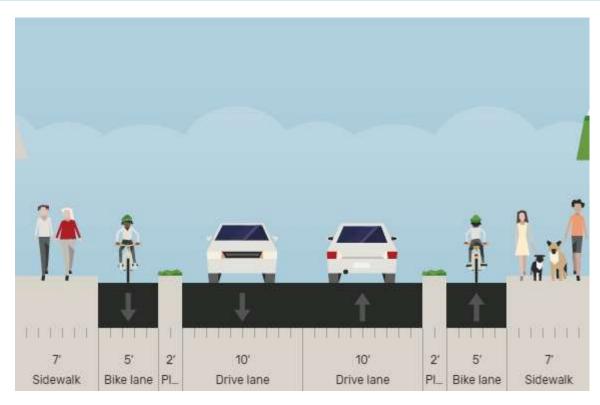




Chelmsford St Segment 2 Concept 1



- Separated bike lane on both sides with buffer
- 7-foot-wide sidewalks
- 10-foot-wide driving lanes*
- Parking loss
- Bike lane may be propped to sidewalk level in constrained locations

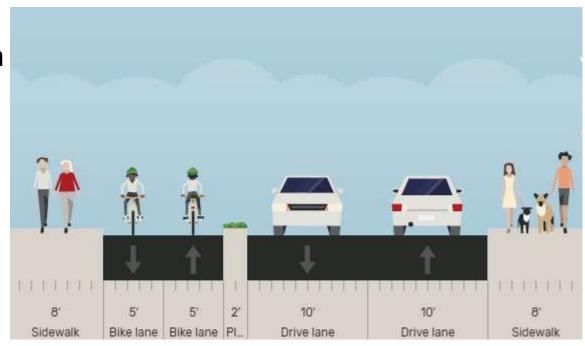


^{*}intersections may be designed in future phase with changes to driving lane widths

Chelmsford St Segment 2 Concept 2



- Separated twodirectional bike lane on the east side
- 8-foot-wide sidewalks
- 10-foot-wide driving lanes*
- Parking loss
- Bike lane may be propped to sidewalk level as a shared-use path if appropriate



*intersections may be designed in future phase with changes to driving lane widths

Chelmsford St Segment 2 - Concepts comparison





	Existing	Concept 1	Concept 2
Bike Lanes	None	Separated – on both sides	Separated – one side only
Traffic Calming	None	Lane narrowing	Lane narrowing
Sidewalk on each side	5-6 feet	7 feet	8 feet
Parking	Informal spaces on either side	No parking	No parking

Discussion



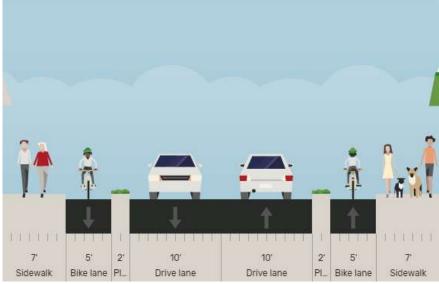


TOOLE

Concept 1

- 1. What do you like about Concept 1?
- 2. What concerns do you have about Concept 1?







TOOLE

Concept 2

- 1. What do you like about Concept 2?
- 2. What concerns do you have about Concept 2?



